Chapter 4: Ecosystems and Communities

State Standards

6.3 Use a food web to identify and distinguish producers, consumers, and decomposers, and explain the transfer of energy through trophic levels. Describe how relationships among organisms (predation, competition, parasitism, commensalism, and mutualism) add to the complexity of biological communities.

Key Terms

Weather

Climate

Greenhouse Effect

Habitat

Community

Niche

Commensalism

Mutualism

Competition

Predation

Herbivory

Parasitism

Symbiosis

Competitive Exclusion

Resource Sharing

Predators

Prey

Parasites

Biodiversity

Endangered Species

Habitat Loss

Indicator Species

Conservation Biology

Hot Spots

You should be able to:

1. Define the following ecological terms: habitat, niche, community, symbiosis, competition, predation, parasitism, and mutualism.
2. List, distinguish among, and provide examples of the several types of species interactions.
3. Discuss the positive aspects and the negative aspects of predation on prey populations.
4. Describe the role competition plays in shaping communities.
5. Describe how communities are organized, how they develop, and how they diversify.
6. Explain how species become "endangered”.
7. Be able to distinguish the various aspects of "habitat”.
8. Explain the competitive exclusion principle.

**You should know the difference between:**

* Weather and climate
* Predation and herbivory
* Habitat and niche
* Mutualism, commensalisms, and parasitism
* Primary and Secondary Succession
* Major terrestrial biomes

**Chapter 4 Video Review**

**Crash Course – Ecology**

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**Crash Course – Ecosystem Ecology**

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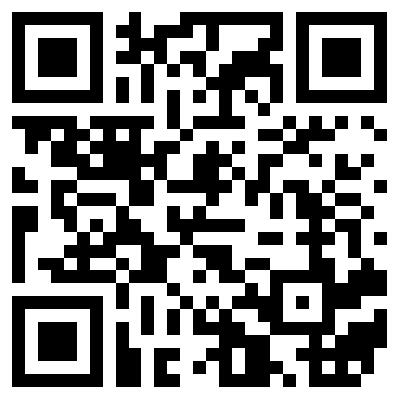
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**Crash Course – Water and Carbon Cycles**

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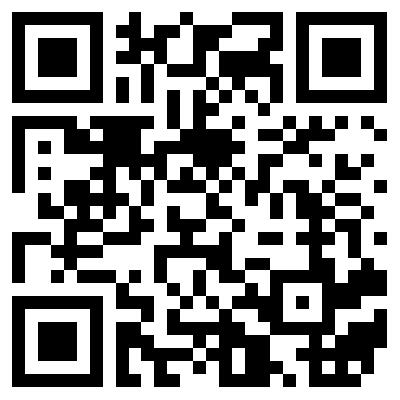
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**Crash Course – Nitrogen and Phosphorus Cycles**

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**Bozeman Biology – Biotic vs. Abiotic Factors**

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